



Chemlon® 830GHI

Teknor Apex Company - Polyamide 6/12 Copolymer

General Information

Product Description

830GHI is an impact modified, 30% glass fibre reinforced, heat stabilised grade of PA612. It offers good mechanical strength and low moisture absorption.

General

Material Status	• Commercial: Active
Availability	• Europe
Filler / Reinforcement	• Glass Fiber, 30% Filler by Weight
Additive	• Heat Stabilizer • Impact Modifier
Features	• Good Strength • Impact Modified • Heat Stabilized • Low Moisture Absorption
Processing Method	• Injection Molding

ASTM & ISO Properties ¹

Physical	Nominal Value	Unit	Test Method
Density	1.27	g/cm ³	ISO 1183
Molding Shrinkage	0.15 to 0.40	%	ISO 2577
Water Absorption (Equilibrium, 73°F, 50% RH)	0.80	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Stress	19300	psi	ISO 527-2
Tensile Strain (Break)	4.0	%	ISO 527-2
Flexural Modulus	979000	psi	ISO 178
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact Strength	7.1	ft-lb/in ²	ISO 180/A
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load 264 psi, Unannealed	347	°F	ISO 75-2/A

Processing Information

Injection	Nominal Value	Unit
Drying Temperature	176	°F
Drying Time	2.0	hr
Rear Temperature	464 to 536	°F
Middle Temperature	464 to 536	°F
Front Temperature	464 to 536	°F
Processing (Melt) Temp	464 to 536	°F
Mold Temperature	176 to 194	°F
Injection Rate	Fast	
Back Pressure	Low	
Screw Speed	Moderate	

Injection Notes

No drying is necessary unless the material has been exposed to air for longer than three hours. The appearance of splash marks on the surface of mouldings indicates excessive moisture is present.

Notes

¹ Typical properties: these are not to be construed as specifications.